MEDICAL BIOLOGY Vol. 61, 1983

INDEX

NUMBER 1

Review articles

I. Leivo (Helsinki)

Structure and composition of early basement membranes: Studies with early embryos and teratocarcinoma cells. (LAMININ/COLLAGEN/FIBRONECTIN) 1

K. Pietilä and T. Nikkari (Tampere)

Role of the arterial smooth muscle cell in the pathogenesis of atherosclerosis. (CHOLESTEROL/COLLAGEN/GLYCOSAMINOGLYCANS/LIPOPROTEINS) 31

Original reports

P. Fredman, O. Nilsson, L. Svennerholm, H. Myrvold, B. Persson, S. Pettersson, J. Holmgren and L. Lindholm (Hisings backa and Göteborg)

Colorectal carcinomas have a characteristic ganglioside pattern. (PANCREAS/LIVER METASTASES) 45

V. Saano, U. Tacke, L. Sopanen and M. M. Airaksinen (Kuopio)

Tofizopam enhances the action of diazepam against tremor and convulsions. (HARMANE/HARMALINE/β-CARBOLINES) 49

J. A. Vilpo (Oulu)

Mitogen induction of deoxyuridine triphosphatase activity in human T and B lymphocytes. (URACIL/DEOXYURIDINE) 54

A. M. Laaksonen, R. A. Mäntyjärvi and O. O. P. Hänninen (Kuopio)

Fibroblast cultures of nude mouse skin as targets for transformation by chemical carcinogens. (POLYCYCLIC AROMATIC HYDROCARBONS/ARYL HYDROCARBON HYDROXYLASE) 59

T. Ebendal, G. Norrgren and K.-O. Hedlund (Uppsala)

Nerve growth-promoting activity in the chick embryo: Quantitative aspects. (TISSUE CULTURE/GANGLIA/AXONS) 65

H. E. Karjalainen, A. M. Laaksonen and R. A. Mäntyjärvi (Kuopio)

Virus specific antigens in BK virus-transformed cells detected by cell-mediated immune reactions. (MOUSE CELL LINES/CYTOTOXIC LYMPHOCYTES) 73

MEDICAL BIOLOGY Vol. 61, 1983

INDEX

NUMBER 1

Review articles

I. Leivo (Helsinki)

Structure and composition of early basement membranes: Studies with early embryos and teratocarcinoma cells. (LAMININ/COLLAGEN/FIBRONECTIN) 1

K. Pietilä and T. Nikkari (Tampere)

Role of the arterial smooth muscle cell in the pathogenesis of atherosclerosis. (CHOLESTEROL/COLLAGEN/GLYCOSAMINOGLYCANS/LIPOPROTEINS) 31

Original reports

P. Fredman, O. Nilsson, L. Svennerholm, H. Myrvold, B. Persson, S. Pettersson, J. Holmgren and L. Lindholm (Hisings backa and Göteborg)

Colorectal carcinomas have a characteristic ganglioside pattern. (PANCREAS/LIVER METASTASES) 45

V. Saano, U. Tacke, L. Sopanen and M. M. Airaksinen (Kuopio)

Tofizopam enhances the action of diazepam against tremor and convulsions. (HARMANE/HARMALINE/β-CARBOLINES) 49

J. A. Vilpo (Oulu)

Mitogen induction of deoxyuridine triphosphatase activity in human T and B lymphocytes. (URACIL/DEOXYURIDINE) 54

A. M. Laaksonen, R. A. Mäntyjärvi and O. O. P. Hänninen (Kuopio)

Fibroblast cultures of nude mouse skin as targets for transformation by chemical carcinogens. (POLYCYCLIC AROMATIC HYDROCARBONS/ARYL HYDROCARBON HYDROXYLASE) 59

T. Ebendal, G. Norrgren and K.-O. Hedlund (Uppsala)

Nerve growth-promoting activity in the chick embryo: Quantitative aspects. (TISSUE CULTURE/GANGLIA/AXONS) 65

H. E. Karjalainen, A. M. Laaksonen and R. A. Mäntyjärvi (Kuopio)

Virus specific antigens in BK virus-transformed cells detected by cell-mediated immune reactions. (MOUSE CELL LINES/CYTOTOXIC LYMPHOCYTES) 73

NUMBER 2

Focus on research

P. Kontro and S. S. Oja (Tampere)

Taurine and synaptic transmission 79

Review articles

D. K. Lvov and V. M. Zhdanov (Moscow)

Persistence of genes of epidemical influenza viruses in natural populations in the USSR. (HUMAN INFLUENZA VIRUSES/HAEMAGGLUTININ/NEURAMINIDASE) 83

P. T. Männistö (Helsinki)

Central regulation of thyrotropin secretion in rats: Methodological aspects, problems and some progress. (THYROTROPIN RELEASING HORMONE/NEUROTRANSMITTERS) 92

Original reports

F. Johansson, L. von Knorring and L. Oreland (Umeå)

Platelet MAO activity in patients with chronic pain syndrome. Relationship to personality traits, endorphins in CSF and plasma cortisol. (SENSATION SEEKING/DIURNAL VARIATION) 101

G. Jonsson and H. Hallman (Stockholm)

Effect of substance P on the 5,7-dihydroxytryptamine induced alteration of the postnatal development of central serotonin neurons. (DEGENERATION/REGROWTH/TROPHIC EFFECTS) 105

M. S. Connolly, M. A. Suman, E. Halberg and F. Halberg (Minneapolis, MN)

Lighting cycle and social isolation affect development of elevated blood pressure in spontaneously hypertensive rats. (CIRCADIAN RHYTHM/FREE-RUNNING MOTOR ACTIVITY) 113

L. C. Sellin, J. A. Kauffman and B. R. Dasgupta (Frederick, MD and Madison, WS)

Comparison of the effects of botulinum neurotoxin types A and E at the rat neuromuscular junction. (TRANSMITTER RELEASE/PARALYSIS) 120

A. Sarnesto (Helsinki)

Monoclonal antibodies reacting with isotypic and/or allotypic determinants of human IgG. (HUMAN IgG SUBCLASSES/IgG MYELOMA PROTEINS/HYBRIDOMAS) 126

A. Buitrago and E. Gylfe (Uppsala)

Significance of serum for the preservation of insulin secretion during culture. (STIMULUS SECRETION COUPLING) 133

NUMBER 3

Focus on research

J. Leysen (Beerse)

Serotonin receptor binding sites: Is there pharmacological and clinical significance? 139

T. Feizi (Harrow, Middlesex)

Monoclonal antibodies point to carbohydrate structures as tumour-associated antigens 144

Review article

E. Kulonen (Helsinki)

Ethanol and GABA. (BENZODIAZEPINE DRUGS/INHIBITORY TRANSMITTERS/RECEPTORS) 147

Original reports

E. Castrén and J. Tuomisto (Kuopio)

Influence of the hormonal balance of late pregnancy on the active uptake of 5-hydroxytryptamine by human blood platelets. (BLOOD OESTROGEN/BLOOD PROGESTERONE) 168

P. T. Männistö and A. M. Poisner (Helsinki and Kansas City, Kansas)

Different isotonic density gradients in separation of renin granules from rat kidney cortex. (DEXTRAN 40,000/METRIZAMIDE/PERCOLL) 172

G. Jonsson and H. Hallman (Stockholm)

Effect of substance P on neonatally axotomized noradrenaline neurons in rat brain. (LOCUS COERULEUS/REGENERATION) 179

T. Kjellström and J. Malmquist (Malmö)

Effects of heparin and dextran sulphate on the production of collagen and protein in diabetic and non-diabetic human skin fibroblast cultures. (PROLINE INCORPORATION/CHONDROITIN SULPHATE) 186

NUMBER 4

Focus on research

R. J. Miller (Chicago, IL)

Corticotropin releasing factor arrives at last 191

T. Hovi (Helsinki)

Succesful acyclovir and the successors 196

Original reports

K. Tuomi (Kuopio)

Disproportionate synthesis of Semliki Forest virus 42S and 26S RNAs in polyamine-depleted baby hamster kidney cells. (VIRUS REPLICATION/α-DIFLUOROMETHYLORNITHINE) 199

T. Palosuo and K. Aho (Helsinki)

Technical falsely positive rheumatoid factor by ELISA in sera with elevated IgM levels. (WAALER-ROSE TEST/LATEX FIXATION TEST) 203

J. Lumio, M.-G. Welin, P. Hirvonen and T. Weber (Helsinki)

Lymphocyte subpopulations and reactivity during and after infectious mononucleosis. (T-LYMPHOCYTES/B-LYMPHOCYTES/MITOGENS) 208

L. Stavenow, P. Falke and A. Berglund (Malmö)

Effects of different injurious stimuli on cell death, proliferation, and collagen secretion by rabbit aortic smooth muscle cells and human umbilical vein endothelial cells in culture. (CIGARETTE SMOKING/HYPOXIA/UV-LIGHT) 214

T. Curstedt and J. Sjövall (Stockholm)

Individual molecular species of phosphatidylcholines and phosphatidylinositols in liver of rats fed bis (2-ethylhexyl)phthalate. (PHOSPHOLIPIDS/CHOLESTEROL/TRIGLYCERIDES) 219

J. P. Slotte and B. Lundberg (Turku)

Effects of cholesterol surface transfer on cholesterol and phosphatidylcholine synthesis in cultured rat arterial smooth muscle cells. (LIPID VESICLES/LIPID SYNTHESIS) 223

NUMBER 5

Review article

M. Grönblad (Helsinki)

Function and structure of the carotid body 229

Original reports

L. M. J. Attila and L. Ahtee (Helsinki)

Cerebral dopamine and noradrenaline turnover and effects of morphine test dose in rats withdrawn from 20 days' morphine treatment. (α-METHYL-p-TYROSINE/MORPHINE TOLERANCE) 249

M. Holzbauer, K. Racké and D. F. Sharman (Cambridge)

A comparison of the release of endogenous dopamine from the neural and the intermediate lobe of the rat hypophysis after electrical stimulation of the stalk. (PARGYLINE/TETRAETHYLAMMONIUM) 258

T. L. Pazdernik and J. Tuomisto (Helsinki)

Dopamine and 5-HT uptake by synaptosomes after pretreatment with p-chlorophenylalanine. (HYPOTHALAMUS/STRIATUM) 264

L. Hänström, A. Johansson and J. Carlsson (Umeå)

Lactoperoxidase and thiocyanate protect cultured mammalian cells against hydrogen peroxide toxicity. (PROLIFERATION/EXCLUSION OF TRYPAN BLUE/ACID PRODUCTION) 269

M. Grönroos, J. Mäenpää, K.-O. Söderström, L. Kangas, M. Leppänen and K. Cantell (Turku and Helsinki)

Effects of alpha and gamma interferons and cytostatics on ovarian cancer in the subrenal capsule assay. (NUDE MICE/NORMAL MICE) 275

Brief report

H. Björklund, L. Olson and Å Seiger (Stockholm)

Enkephalin-like immunofluoresecence in nerves of the rat iris following systemic capsaicin injection. (SUBSTANCE P NERVES/PEPTIDE INTERACTION) 280

NUMBER 6

Review article

T. Vartio (Helsinki)

Fibronectin: Multiple interactions assigned to structural domains 283

Original reports

C. S. Ayer-LeLievre, T. Ebendal, L. Olson and Å. Seiger (Stockholm and Uppsala)

Localization of nerve growth factor-like immunoreactivity in rat nervous tissues. (SALIVARY GLANDS/EMBRYONIC BRAIN) 296

G. D. Bloom, B. Carlsöö, Å. Danielsson, S. Domeij and R. Henriksson (Umeå)

Ultrastructural changes in rat parotid acinar cells after selective beta$_1$-adrenoceptor agonist treatment. (ISOPRENALINE/PRENALTEROL) 305

P. H. Mäenpää and S. Tewari (Irvine and Kuopio)

A change in isoaccepting leucine transfer RNA species in rat brain after prolonged ingestion of ethanol. (RIBOSOMES/AMINOACYLATION OF tRNA) 313

A. W. Jones (Stockholm)

Effects of fructose, glucose, and mixed sugars on ethanol detoxification and blood glucose response in rats. (CARBOHYDRATES/ETHANOL METABOLISM) 319

F. Lanefelt, M. Ullberg, M. Jondal and B. B. Fredholm (Stockholm)

PGE$_1$ and prostacyclin suppression of NK-cell mediated cytotoxicity and its relation to cyclic AMP. (PROSTAGLANDINS/PHOSPHODIESTERASE) 324

C. Ferretti, F. Benfenati, M. Cimino, G. Vantini, M. Lipartiti, G. Muccioli, R. di Carlo and S. Algeri (Milan)

Effects of systemic and intracerebroventricular domperidone treatment on striatal and hypothalamic dopaminergic neurons. (HALOPERIDOL/PROLACTIN) 331

M. J. Mattila and E. Nuotto (Helsinki)

Caffeine and theophylline counteract diazepam effects in man. (PSYCHOMOTOR PERFORMANCE) 337

Brief report

P. Gothóni (Helsinki)

Hypersensitivity to the tremorogenic action of nicotine in rats withdrawn from ethanol 344

Index 1983

AUTHOR INDEX

Aho K 203
Ahtee L 249
Airaksinen MM 49
Algeri S 331
Attila LMJ 249
Ayer-LeLievre CS 296
Benfenati F 331
Berglund A 214
Björklund H 280
Bloom GD 305
Buitrago A 133
Cantell K 275
Carlsson J 269
Carlsöö B 305
Castrén E 168
Cimino M 331
Connolly MS 113
Curstedt T 219
Danielsson Å 305
Dasgupta BR 120
Di Carlo R 331
Domeij S 305
Ebendal T 65, 296
Falke P 214
Feizi T 144
Ferretti C 331
Fredholm B 324
Fredman P 45
Gothóni P 344
Grönblad M 229
Grönroos M 275
Gylfe E 133
Halberg E 113
Halberg F 113
Hallman H 105, 179
Hedlund KO 65
Henriksson R 305
Hirvonen P 208
Holmgren J 45
Holzbauer M 258
Hovi T 196
Hänninen OOP 59
Hänström L 269
Jondal M 324
Jones AW 319
Jonsson G 105, 179
Johansson A 269
Johansson F 101
Kangas L 275
Karjalainen HE 73
Kauffman JA 120
Kjellström T 186
Knorring von L 101
Kontro P 79
Kulonen E 147
Laaksonen AM 59, 73
Lanefelt F 324
Leivo I 1
Leppänen M 275
Leysen J 139
Lindholm L 45
Lipartit M 331
Lvov DK 83
Lumio J 208
Lundberg B 223
Malmquist J 186
Mattila MJ 337
Miller RJ 191
Muccioli G 331
Myrvold H 45
Mäenpää J 275
Mäenpää PH 313
Männistö PT 92, 172
Mäntyjärvi RA 59, 73
Nikkari T 31
Nilsson O 45
Norrgren G 65
Nuotto E 337
Oja SS 79
Olson L 280, 296
Oreland L 101
Palosuo T 203
Pazdernik TL 264
Pettersson S 45
Persson B 45
Pietilä K 31
Poisner AM 172
Racké K 258
Saano V 49
Sarnesto A 126
Sellin LC 120
Seiger A 280, 296
Sharman DF 258
Sjövall J 219
Slotte JP 223
Sopanen L 49
Stavenow L 214
Svennerholm L 45
Suman MA 113
Söderström KO 275
Tacke U 49
Tewari S 313
Tuomi K 199
Tuomisto J 168, 264
Ullberg M 324
Vantini G 331
Vartio T 238
Vilpo JA 54
Weber T 208
Welin MG 208
Zhdanov VM 83